

# Flame retardant Plamtar-RDP

**Chemical name:** Resorcinol bis-diphenylphosphate; Phosphoric trichloride, polymer with 1, 3-benzenediol, phenyl ester

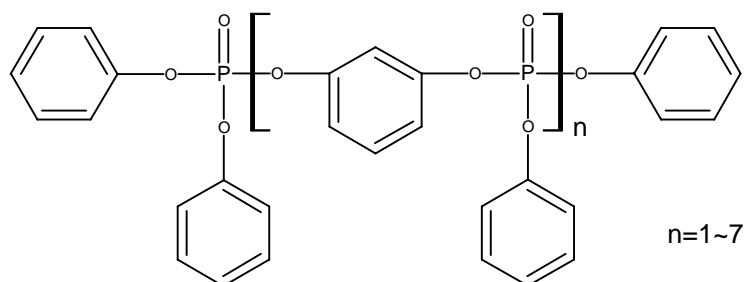
**Equivalent:** Reofos RDP (Chemtura) / Fyrolflex-RDP (Supresta)

**Molecular formula:**  $C_{30}H_{24}O_8P_2$  (whereas  $n=1$ )

**Molecular weight:** 574.4 (whereas  $n=1$ )

**CAS No.:** 57583-54-7 & 125997-21-9

**Structural formula:**



## PHYSICAL PROPERTIES

Appearance: Colorless or slight yellow clear liquid      Specific gravity ( $g/cm^3$ ), @20 °C: 1.29 ~ 1.31

Boiling point: 300 °C min

Solubility ( $g/100g$  solvent), @20 °C

Water: Insoluble

Toluene: Complete

Methanol: Complete

MEK: Complete

## SPECIFICATIONS

Appearance: Colorless or slight yellow clear liquid      Acid value ( $mg\ KOH/g$ ): 0.05 max

Phosphorus content: 10 ~ 12% min

Color (Pt-Co), melton: 80 max

Viscosity (cps), @20 °C: 600 ~ 800

Moisture: 0.15% max

## APPLICATIONS

Plamtar -RDP is used as flame retardant for HIPS, PA, PC, PA/ABS, PPO/ABS, PBT, PET and soft PU foam.

Low volatility, high heat resistance, suitable for engineering plastics.

## PACKING

250kg/galvanized iron drum